AWIPS Release OB1 Release Notes

Section I - New Functionality in Release OB1

1.0   D2D/TEXT/OTHER APPLICATIONS

1.1   ACARS/MDCRS Data

- ACARS and MDCRS data are now available. Data processing and storage are performed by the new *BufrDriver acars* process (the child of the *DataController COMMS_ROUTER BufrDriverCont3* process) on PX2. Displays are available on D2D from the MDCRS plots menu in the Aircraft subsection of the Upper Air menu. Sounding displays are available via the Volume Browser.

1.2   Aviation Forecast Preparation System

- Users can now set to have the forecast automatically printed out when it is transmitted.

1.3   GLERL Wave Model

- The GLERL Wave Model forecast grids are now available for display from the Volume Browser at Great Lakes area offices (APX, BUF, CLE, DLH, DTX, GRB, GRR, IWX, LOT, MKX, MPX, and MQT). The model covers the Great Lakes and the forecasts are hourly out to 48 hours. Displayable parameters are Significant Wave Height, Significant Wave Period, and Significant Mean Direction for 00Z and 12Z daily.

1.4   Local Analysis and Prediction System (LAPS)

- LAPS now incorporates ACARS, visible satellite, and RAOB data into its analyses.

- LAPS now incorporates static earth-albedo data into its cloud analysis.

1.5   Local Storm Report (LSR)

- The LSR application is now available on the Linux workstations, in addition to the HP workstations.

- Users now have the capability to trim event and source lists.

- The spotter section functionality has been enhanced.

1.6   Meteogram Display

- It is now possible to display observations in a meteogram or stacked time series format. To display a meteogram, in the Volume Browser, use Points to select a location at which to display the meteogram. In the Fields section, from the Sfc/D2D menu, select

Meteogram from the Misc menu (Weather, Visibility, and Altimeter are also newly available selections), and in the Planes section, select Surface.

1.7   POES BUFR Soundings

● POES soundings are now available. Data processing and storage are performed by the new *BufrDriver poes* process (the child of the *DataController COMMS_ROUTER BufrDriverCont4* process) on PX2. At WFOs, soundings processed are those that fall within the Regional scale; at RFCs, those within the RFC scale; and at National Centers, all soundings. On D2D, the "POES Sounding Availability" menu item under the "Satellite" menu displays a map of the currently available sounding locations. Sounding displays (skew-T) are available via the Volume Browser. Note: The Time Options toggle provides flexible access to subsets of the data when more than 32 time projections are available.

1.8   Radar

● The VAD Wind Profile (VWP) product is now displayable via the Volume Browser. Select VWP in the Source menu and Sounding display (place a Point at the radar of interest) to display the hodograph. The Time height or Var vs Hgt modes can be used to display these data. New vertical scale choices 0-5km MSL and 0-2.5km AGL may be useful for the latter.

● Users can now request the User Selectable Reflectivity product via the One-time Request and RPS list applications on D-2D. The user specifies the lower and upper levels for the layer.

● A new High Res (8-bit) SRM radar product is now available. The product computes a storm-relative motion from the 8-bit velocity product and the last motion tracked using either the Distance Speed tool or WarnGen.

● Improvements have been made to the 8-bit radar reflectivity color tables (there are two reflectivity color tables).

● AWIPS is now compatible with ORPG Build 2.

1.9   Russian METARs

● Changes have been made to the *MetarDecoder* to allow Russian METARs to be decoded and stored. Russian METAR observations are displayable on D2D in the Station Plot under the Obs menu along with the standard METAR observations.

1.10 SCAN/FFMP

- The FFMP Basin Table Refresh Button now becomes highlighted when the user needs to refresh D2D upon a change in one or more of the "Duration", "Thresh Type", and "Display Rate" options. After selecting the highlighted "Refresh D2D" button and the D2D refresh request is complete, the button color goes back to its normal color.

- When moving the mouse over the "FF" button in the upper right corner of D2D, the value of "Duration (in hours)" that is being monitored is now displayed, along with the time and the threshold type (Precip, Precip/FFG, or Precip-FFG) with its value.

1.11 Upper Air

- The MDPI/WINDEX wind index, calculated from Raob data, is now available. It is listed among the skew-T parameter data in the bottom right corner of a skew-T display.

2.0 INTERACTIVE FORECAST PREPARATION SYSTEM (IFPS)/WATCH WARNING ADVISORY(WWA)

- Complete Fire Weather functionality is now available in WWA.

- The *isc_svr* process is no longer being used, and thus has been removed from AS1.

3.0 SYSTEM

3.1 Localization

- The *localizeForFFMP* executable, run during radar and scan localizations, now looks in /data/fxa/customFiles first, and /data/fxa/nationalData second, when looking for the basin shapefiles. From now on, if the shapefiles get customized, they should be stored in /data/fxa/customFiles.

3.2 Freeware/COTS Software

- Python 2.2.1 (HP and LX), which includes:
  - Python 2.2.1
  - Scientific Python 2.2
  - Numeric Python 21.3
  - Python Mega Widgets (Pmw) 0.8.5

- RedHat 7.2 (LX)

4.0   OCONUS

● Boundary layer profiler data for Juneau, Alaska are now available. For OB1, the only default implementation is for Juneau, but this capability can also be used at other sites eventually.

   To enable ingest and processing of the data, the following line must be added to /awips/fxa/ldad/data/LDADinfo.txt after the OB1 install:
   jnu | JNU | 88 | 0 |PROFILER |profiler |null |
   Also, the most recent template from /data/fxa/point/profiler/netcdf must be copied to /data/fxa/LDAD/profiler/netCDF. The LDAD processes must then be stopped and restarted to enact the change. The added line assumes that the profiler products in /data/Incoming match the pattern "jnu*.dat". If they do not, the site must modify /awips/fxa/ldad/data/LdadPattern.txt as well.

   Data processing and storage are performed by the new *routerStoreAkBlp* process (a child of the *DataController LDAD_ROUTER LdadController* process) on DS1. D2D menu items for these data are configured via the <site>-siteProfilerMenus.txt file in /awips/fxa/data/localization/<site>. Displays are available from the Profiler section of the Upper Air menu.

● The OHD DPAGather functionality can now be set up to work at OCONUS sites through the Radar Setup window in HydroBase.